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## PATENT ABSTRACTS OF JAPAN

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## (54) ADAPTIVE MODULATION SYSTEM

## (57)Abstract

**PROBLEM TO BE SOLVED:** To prevent a signal transmission efficiency from being deteriorated by making a modulation signal the most likelihood estimation in a receiver side without transmitting any control signal in a transmitter side in an adaptive modulation system that is applicable to a mobile communication system or the like and where only a modulation index is changed based on a channel power gain especially.

**SOLUTION:** A modulation index estimate section 110 calculates a square error of a minimum distance among respective distances between respective signal points to be received in a modulation index for every modulation index and signal points of a received signal. A reception power measurement device 109 measures a reception power level of the received signal. The modulation index estimation section 110 calculates a value obtained by calculating a weight calculated from a switching power level to switch the modulation figure and the reception power level for the square error calculated for the every modulation index as a likelihood value for the every modulation index. Then, the modulation index estimate section 110 estimates a modulation index corresponding to the most likelihood value among the likelihood values for the every modulation index as the modulation index of the received signal.



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